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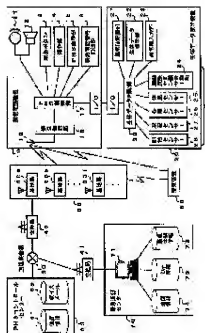
(54) EMERGENCY INFORMING SYSTEM

(57)Abstract

PROBLEM TO BE SOLVED: To provide an emergency informing system capable of immediately informing an emergency communication center of anything unusual in a patient even if the patient is out of home, and further, capable of promptly and properly dealing with any subsequent treatment

SOLUTION: In this emergency informing system, a living body data detector 20 attached to a patient detects living body data such as pulsation, pulse wave, cardiogram, body temperature, oxygen saturation concentration in blood and, judges an abnormality, and communicates to an emergency informing center 70 if a portable telephone 10 is out of order. The emergency informing center 70

retrieves information about the patient from an instrument ID of the portable telephone 10 and displays it, and also displays a contact address such as an emergency medical institution, police, fire station to which an emergency communication should be sent, and further, grasps the position of the portable telephone 10, and telephones to monitor the living data detected by the living body detector 20.



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3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the emergency reporting system which can be responded urgent in response to the notice of the abnormalities in a patient, and relates to the emergency reporting system which receives unusually [a patient] and can realize quick and proper management especially.

[0002]

[Description of the Prior Art] Conventionally, in the remote medical treatment, although the care of the basis of a medical practitioner's diagnosis, a family, or care was performed, also including midnight, for always nursing, the burden was heavy, and judgment of the abnormalities of the body was restricted to a complexion, appetite, a reaction, body temperature, etc.

[0003] In such a situation, development of the system which detects the abnormalities of the body and is connected to an urgent organization is called for immediately.

[0004] As the example of representation of such [now] a system -- a patient -- the person himself/herself, a family, or the person of care detects a patient's abnormalities, and the system which can be connected to an emergency contact is known by pushing the emergency button with which being home was equipped.

[0005] To JP, 9-163029, A, even if an addresser does not push an emergency contact button in an emergency, the cell phone unit which can be connected to an emergency contact is indicated automatically. The position representation system and the terminal for movement for a wandering old person's search are indicated to JP, 9-172676, A. The portable telephone which can detect the field intensity of a reception radio wave in transceiver communication, and can know a searcher's position to it is indicated to JP, 9-46292, A using the portable telephone which has a transceiver function.

[0006] The home unit of two or more in-home patients' home and the center unit of a medical institution are connected to JP, 9-47436, A by a communication line, and the home care system by which two or more ***** are transmitted to a center unit is indicated via

various measuring equipment interface parts to it

[0007] To JP, 9-75310, A, without using wiring for the part of the bodies, such as a patient's wrist, an ankle, a finger, and an arm, The patient monitoring apparatus which it is equipped with so that it may contact directly, and measures body data automatically, and transmits the measured body data to a receiving set is indicated, This patient monitoring apparatus is provided with a means to detect the body data which comprises arterial blood oxygenation a pulse, a pulse wave, electrocardio, body temperature or concentration, or two or more combination, and a means to transmit the detected body data to a receiving set via optical communications, such as radio or infrared rays.

[0008]

[Problem(s) to be Solved by the Invention] however -- the emergency communication system which needs to push the above-mentioned conventional emergency button -- a patient -- since the person himself/herself, a family, or the person of care needed to operate it, when those persons were not able to operate it, there was a problem that this conventional emergency communication system was unutilizable.

[0009] In the cell phone unit of JP, 9-163029, A, if the data which the biomedical signal detection means detected is unusual, connect with an emergency contact, but Since the emergency contact which received such connection became the same thing as connection by a telephone, there was a problem that it could not be coped with still more nearly promptly and properly to the patient who requires emergency.

[0010] In the home care system of JP, 9-47436, A. Only by a patient setting to his body the sphygmomanometer connected to the home unit, the electrode of electrocardio, etc., energizing a switch, and starting measurement, Since measurement data was what is automatically transmitted to the center unit by the side of a medical institution via a home unit, in measurement data, the patient needed to output measurement data to the home unit periodically, and had the problem that a patient could not go out freely.

[0011] In the patient monitoring apparatus of JP, 9-75310, A. Equip a patient's wrist, an ankle, a finger, an arm, etc. directly, and transmit the measured body data to a receiving unit (main phone) by optical communications, such as radio or infrared rays, since it is what is notified to a medical institution from a receiving unit, movement in the circumference of a receiving unit is still more possible for a patient, but There was a problem that a patient could not go out freely across the reception range of a receiving unit

[0012] In view of the above-mentioned actual condition, it succeeded in this invention, even if the patient of being home is going out, it can tell an emergency contact center about the patient's abnormalities promptly, and an object of this invention is to provide the emergency reporting system which can moreover cope with subsequent correspondence still more nearly promptly and properly.

[0013]

[Means for Solving the Problem] The invention according to claim 1 for solving a problem of

the above-mentioned conventional example, An emergency call center which receives an emergency dial, and two or more base stations connected to said emergency call center via a carrier network, It is an emergency reporting system provided with said base station, a cell phone unit which performs radio, and a body data sensing device which detects body data, It is judged whether body data which said body data sensing device detected has abnormalities, When abnormal, are an abnormal signal a body data sensing device to output, and said cell phone unit, It is a cell phone unit which will transmit base station ID of a base station linked to terminal ID of the cell phone unit concerned to said emergency call center by wording of a telegram if an input of said abnormal signal is received, Said emergency call center holds area which said two or more base stations cover as map information, Information about illness of a body data to-be-examined appearance person corresponding to terminal ID of a cell phone unit is held as clinical recording information, If a contact of an emergency care organization, the police, and fire-fighting relation is held as emergency system information and said wording of a telegram from said cell phone unit is received, Display a position of the base station concerned on said map information from base station ID, and clinical recording information of a body data to-be-examined appearance person corresponding to the cell phone unit concerned is displayed from terminal ID, It is characterized by being an emergency call center which displays emergency system information, and it receives unusually [a body data to-be-examined appearance person], and quick and proper management can be realized.

[0014] In the emergency reporting system according to claim 1, the invention according to claim 2 for solving a problem of the above-mentioned conventional example is characterized by unifying a body data sensing device and a cell phone unit, and is convenient for a body data to-be-examined appearance person to carry.

[0015] The invention according to claim 3 for solving a problem of the above-mentioned conventional example, In the emergency reporting system according to claim 1 or 2, it is characterized by detecting either or such combination of a pulse, a pulse wave, electrocardio, body temperature, and arterial blood oxygenation concentration as body data, and a body data to-be-examined appearance person's situation can properly be judged.

[0016] The invention according to claim 4 for solving a problem of the above-mentioned conventional example, In the emergency reporting system according to claim 1, a body data sensing device, It is a body data sensing device which an abnormal signal will be outputted if it judges whether detected body data has abnormalities and is abnormal, and outputs body data at the time of the abnormalities concerned, A cell phone unit is a cell phone unit which transmits to wording of a telegram in an emergency call center including body data at the time of said abnormalities, Said emergency call center acquires body data at the time of abnormalities from said wording of a telegram, and emergency system information to a shown contact A body data to-be-examined appearance person's position, It is characterized by being an emergency call center which transmits clinical recording

information and body data at the time of the abnormalities concerned, various information which included body data at the time of abnormalities in an emergency contact about a body data to-be-examined appearance person's abnormalities can be connected, it receives unusually [a body data to-be-examined appearance person], and quick and proper management can be realized.

[0017] The invention according to claim 5 for solving a problem of the above-mentioned conventional example, In the emergency reporting system according to claim 1, 3, or 4, An emergency call center transmits a Request to Send of body data to a specific cell phone unit, An emergency call center which monitors body data obtained from said cell phone unit, and if said cell phone unit receives a Request to Send of said body data, It is a cell phone unit which transmits body data which outputted an input request of body data to a body data sensing device, and was inputted from said body data sensing device to said emergency call center, It is characterized by being a body data sensing device which said body data sensing device detects body data to an input request of body data from said cell phone unit, and outputs to said cell phone unit, A body data to-be-examined appearance person's situation can be monitored from an emergency call center, and quick and proper management to a body data to-be-examined appearance person can be realized.

[0018] The invention according to claim 6 for solving a problem of the above-mentioned conventional example, In the emergency reporting system according to claim 1 or 4, a body data sensing device, It is a body data sensing device which detects body data periodically and is outputted to a cell phone unit, Said cell phone unit is a cell phone unit which transmits inputted body data to an emergency call center, An emergency call center is characterized by being an emergency call center which receives and accumulates body data periodically from said cell phone unit, a body data to-be-examined appearance person's situation can be grasped periodically, and quick and proper management to a body data to-be-examined appearance person can be realized.

[0019] The invention according to claim 7 for solving a problem of the above-mentioned conventional example, A PHS control center provided with a position information database which matches and memorizes terminal ID of a cell phone unit and base station ID of a base station from a communication connecting state of a cell phone unit and a base station in the emergency reporting system according to claim 1 or 4 is provided, and an emergency call center, Retrieval required of a position about specific terminal ID is outputted to said PHS control center, It is an emergency call center which displays a base station of base station ID notified from said PHS control center on map information, If said PHS control center is examined for a position about specific terminal ID from said emergency call center, It is characterized by being a PHS control center which notifies base station ID of a base station where a cell phone unit of said terminal ID exists to said emergency call center, Even if an emergency call center does not telephone a cell phone unit, it can obtain a base station which carries out the whereabouts from a PHS control center, and it can grasp easily a body data to-be-examined appearance person's place.

[0020] The invention according to claim 8 for solving a problem of the above-mentioned conventional example, In the emergency reporting system according to claim 1, 4, or 7, A base station of an object which is provided with a voice mail database which registers voice mail of specific contents to a specific base station, and transmits voice mail from an emergency call center, If the contents of voice mail to transmit are inputted, voice mail according to the contents concerned will be created, Match with a base station of a transmission object and it registers with said voice mail database, It is characterized by having a PHS control center which transmits said voice mail to a cell phone unit in area of the base station concerned via a base station of said transmission object, Voice mail of specified substance can be transmitted to a cell phone unit of a specific area, for example, information on an evacuation area etc. can be efficiently transmitted to a stricken area region.

[0021] The invention according to claim 9 for solving a problem of the above-mentioned conventional example, In area of a base station in which a cell phone unit which searches is present in the emergency reporting system according to claim 1 or 4, If a change-request signal made to change into a transceiver mode from PHS communication mode to said cell phone unit is transmitted and said cell phone unit changes into a transceiver mode, If a searching device which displays field intensity of an electric wave is formed, said cell phone unit is provided with a transceiver mode and said change-request signal from said searching device is received, It is characterized by being a cell phone unit changed into a transceiver mode, and field intensity of an electric wave in a transceiver mode can search for a cell phone unit of a search object easily.

[0022]

[Embodiment of the Invention] An embodiment of the invention is described referring to drawings. The emergency reporting system (this system) concerning an embodiment of the invention, The body data sensing device attached to the patient (body data to-be-examined appearance person), Detect body data, such as a pulse, a pulse wave, electrocardio, body temperature, and oxygenation concentration in blood, and it is judged whether it is unusual, In response to judgment of abnormalities, a cell phone unit connects with an emergency call center, and an emergency call center, Retrieve and display the information about a patient from apparatus ID of a cell phone unit, and The emergency medical service organization which needs emergency contact, Display contacts, such as the police and a fire department, and also an emergency call center grasps the position of the connected cell phone unit, The body data which a body data sensing device detects telephoning the cell phone unit concerned can be monitored, and an in-home patient's emergency can be coped with promptly and properly.

[0023] First, the composition of this system is explained using drawing 1. Drawing 1 is a configuration block figure of the emergency reporting system concerning an embodiment of the invention. This system comprises fundamentally the cell phone unit 10, the body data sensing device 20, the base station whole [30] and the exchange stations 40 and 41, the

carrier network 50, the PHS control center 60, the emergency call center 70, and the searching device 80, as shown in drawing 1.

[0024]Next, each part of this system is explained concretely. The microphone 11 into which the cell phone unit 10 inputs a sound, and the speaker 12 which outputs a sound, The emergency button 13 operated in order for the patient itself to tell emergency in an emergency, The final controlling element 14 for performing the usual telephone call, and the PHS indicator 15 as which data required for a telephone call is displayed, It comprised the emergency number storage parts store 16 which memorizes the telephone number of the contact which should be connected in an emergency, PHS control part 17 which performs control of the cell phone unit 10 whole, the transmission and reception circuit 18 which performs transmission and reception of the cell phone unit 10, and the antenna 19 used for transmission and reception, and also has I/O.

[0025]PHS control part 17 holds ID (base station ID) of a base station by the control channel between the base station whole [30]. This is sent to the cell phone unit 10 from the base station between the base station whole [30] and the cell phone unit 10 by the signal (base station ID) which shows the position of the base station, and always the cell phone unit 10, Have the function to hold the signal which shows its position, perform collation with the signal which will be held if the signal which shows a position from a base station is received, and when different The cell phone unit 10 holds the signal which shows a new position, after returning its number (terminal ID:PS-ID) to a base station.

[0026]And characteristic processing of PHS control part 17 in the cell phone unit 10 is explained using drawing 2. Drawing 2 is a flow chart figure showing processing of PHS control part 17 of the cell phone unit 10 concerning an embodiment of the invention. PHS control part 17 judges whether as shown in drawing 2, the directions which perform an emergency dial from the body data sensing device 20 via I/O are inputted (S10). If the directions which call in emergency dial are inputted, the emergency number memorized by the emergency number storage parts store 16 will be read, and the telephone number concerned will be telephoned (S12). (When it is Yes) base station ID currently held and PS-ID (terminal ID) are transmitted to the telephoned emergency dial place -- it is like (S14). Also when the emergency button 13 is pushed, base station ID and PS-ID are transmitted reading the telephone number of the emergency number storage parts store 16, and telephoning similarly.

[0027]PHS control part 17 of the cell phone unit 10, If the transmission and reception circuit 18 receives the body data Request to Send from the emergency call center 70 via the antenna 19, If the contents are analyzed, the Request to Send of body data is outputted to the body data control section 29 of the body data sensing device 20 via I/O and the input of the body data at the time of abnormalities is received from the body data sensing device 20, the body data will be transmitted to the emergency call center 70.

[0028]The abnormal value storage parts store 21 which memorizes the abnormal value used as a standard for the body data sensing device 20 to judge the abnormalities of body

data, The body data indicator 22 which displays the detected body data, and the unusual markup power part 23 which inputs the above-mentioned abnormal value, The arterial blood oxygenation concentration sensor 24 which detects an arterial blood oxygenation state, It comprised the body temperature sensor 25 which detects body temperature, the electrocardio sensor 26 which detects electrocardio, the pulse wave sensor 27 which detects a pulse wave, the pulse sensor 28 which detects a pulse, and the body data control section 29 which performs control of the body data sensing device 20 whole, and also has I/O.

[0029]The sensor which detects the indicated body data here, For example, it does not matter as wearing of sensors, such as an electroencephalogram and a breather, being possible, and you may make it equip with these sensors selectively by condition of disease not the thing that and is limited to these but in addition to these. [a thing] [illustration]

[0030]The arterial blood oxygenation concentration sensor 24, the body temperature sensor 25, the electrocardio sensor 26, the pulse wave sensor 27, and the pulse sensor 28 are attached to a human body (body data to-be-examined appearance person). The body data sensing device 20 whole is made into a belt and shape like a wristband, for example, and you may make it attach it to a human body. You may be shape other than a belt and a wristband.

[0031]The body data sensing device 20 is the shape which is attached to an earlobe or external auditory meatus, It may have the voice input/output device with which the projection inserted in external auditory meatus was equipped with the voice input/output means (a microphone, a speaker), and also may have a communication apparatus which transmits an audio signal, an abnormal signal, and body data.

[0032]The communication apparatus with which the body data sensing device was equipped by a feeble radio wave In this case, a signal, The PHS device which transmits data and is equivalent to the cell phone unit 10 and which was attached to a patient's body These signals, Data is received and also it may be made for a PHS device to transmit these signals and data to the emergency call center 70 in the mode for the public (PHS communication mode) via a base station.

[0033]Above body data sensing device and PHS device are unified, and it may be made to transmit to the emergency call center 70 in PHS communication mode via a direct base station from the PHS device to which an audio signal, an abnormal signal, and body data were attached by the ear.

[0034]And characteristic processing of the body data control section 29 in the body data sensing device 20 is explained using drawing 3. Drawing 3 is a flow chart figure showing the abnormality detection processing of the body data control section 29 of the body data sensing device 20 concerning an embodiment of the invention. The body data control section 29 inputs the body data detected by each sensors 24, 25, 26, 27, and 28, as shown in drawing 3, If comparison with the abnormal value memorized by the abnormal value storage parts store 21 is performed and the detected body data goes into the range

of an abnormal value, It judges that a patient is unusual (S 20), and the directions (abnormal signal) which call PHS control part 17 of the cell phone unit 10 in emergency dial via I/O are outputted (S 22).

[0035] Although the body data control section 29 judges the abnormalities of body data and the directions (abnormal signal) which call in emergency dial to the cell phone unit 10 are outputted here, The body data at the time of abnormalities is also simultaneously outputted to PHS control part 17 as data, and it may be made to transmit the body data at the time of abnormalities to the emergency call center 70 from the cell phone unit 10.

[0036] The body data control section 29 will output the body data at the time of abnormalities to the cell phone unit 10, if the Request to Send of body data is received from the cell phone unit 10. This processing is explained using drawing 4. Drawing 4 is a flow chart figure showing body data transmitting processing of the body data control section 29 of the body data sensing device 20 concerning an embodiment of the invention. It is judged whether the body data control section 29 received the Request to Send of the body data at the time of the abnormalities transmitted from the emergency call center 70 via I/O from PHS control part 17, as shown in drawing 4 (S 30). If the body data Request to Send was received (in the case of Yes), the body data memorized to the abnormal value storage parts store 21 at the time of abnormalities will be read, and it will output to PHS control part 17 (S 32).

[0037] Although he is trying to transmit the body data at the time of abnormalities to the body data Request to Send at the time of abnormalities in drawing 4, The body data control section 29 edits the body data obtained from the various sensors 24-28 to the mere body data Request to Send from the emergency call center 70, and you may make it output to PHS control part 17 of the cell phone unit 10 via I/O. In this case, from the cell phone unit 10, the body data of a patient's real time is transmitted to emergency call center 70 grade, and a patient can be monitored in real time in the emergency call center 70.

[0038] Body data can be periodically transmitted to the emergency dial center 70. In this case, the body data sensing device 20 is provided with a timer, and outputs body data to the cell phone unit 10 for every fixed time, May make it transmit to the emergency call center 70 from the cell phone unit 10, and. The cell phone unit 10 is equipped with a timer, the input of body data is required of the body data sensing device 20 for every fixed time, and it may be made to transmit the body data obtained from the body data sensing device 20 to the emergency call center 70. Thereby, in the emergency call center 70, a patient's periodical body data can be accumulated, progress of a patient's condition of disease can be recognized easily, and the effect that proper diagnosis can be performed is done so.

[0039] Although it was considered as the device which separated the cell phone unit 10 and the body data sensing device 20, the above-mentioned example is available also as an integral type, in order to attain the miniaturization of a product, and a weight saving.

[0040] The base station whole [30] comprises the base station 30a, the base station 30b, -, the base station 30i, and --, and these base stations cover two or more area (ready-for-

receiving ability range).

[0041]The exchange station 40 is an exchange station provided in order to connect the base station whole [30] and the carrier network 50. The exchange station 41 is an exchange station provided in order to connect the emergency call center 70 and the carrier network 50.

[0042]The carrier network 50 is a common carrier network, and is connected with a telephone device, a cell phone unit, etc. via an exchange station. The carrier network 50 is connected to the PHS control center 60.

[0043]The PHS control center 60 is provided with the following.

It is the position information database 61 as a database.

Voice mail database 62.

In order to perform the fee collection and telephone call permission attestation in the case of communication of the PHS control center 60 of a cell phone unit, the position information database 61 acquires the position information which the cell phone unit registered between the base station and the cell phone unit, and is memorized. Base station ID which the base station sent using the control channel between the base station and the cell phone unit in the cell phone unit is specifically acquired, terminal ID of a cell phone unit is transmitted to the base station of the base station ID concerned, and location registration is performed. And in the case of a actual telephone call, the PHS control center 60 acquires the position information on the cell phone unit which a base station manages, and fee collection and telephone call permission attestation are performed.

[0044]The voice mail database 62 is for performing the emergency dial limited to the specific area. First of all, voice mail will notify the voice mail concerned to the partner point, if contents to tell are registered as voice mail and the telephone call of the partner point is completed, while the partner point which talks over the telephone is talking over the telephone.

[0045]However, the voice mail database 62 concerning an embodiment of the invention carries out the following work. If the PHS control center 60 has the directions which specify a specific area (it is an area to be evacuated at a disaster etc.) per base station in the map information of the map information database 74 from the emergency call center 70, The PHS control center 60 pinpoints the specified base station from the position information database 61, generates voice mail to the cell phone unit corresponding to the base station concerned, and registers the situation of a disaster, an evacuation area, etc. into it at the voice mail database 62. From the emergency call center 70, not only specification of a specific area but specification of the contents of voice mail is inputted into the PHS control center 60.

[0046]The PHS control center 60 transmits the voice mail registered into the target cell phone unit by the voice mail database 62 via the carrier network 50, the exchange station 40, and the target base station, and voice mail is reproduced and it is notified by each cell phone unit

[0047]The emergency call center 70 is equipped with the display 71, and is equipped with the emergency system information database 72, the clinical recording information database 73, and the map information database 74 as a database.

[0048]The emergency call center 70 analyzes the wording of a telegram which received via the switchboard 41, With reference to PS-ID contained in wording of a telegram to the clinical recording information database 73, with reference to base station ID to the map information database 74, abnormality information is specified from the body data at the time of abnormalities, and an addresser is displayed for position information on the display 71.

[0049]If a patient's abnormalities are judged, a patient's condition can be heard directly in the emergency call center 70, being able to telephone the cell phone unit 10.

[0050]Here, the wording of a telegram which the emergency call center 70 receives is explained using drawing 5. Drawing 5 is an explanatory view showing the example of the wording of a telegram concerning an embodiment of the invention. As shown in drawing 5, one time slot in the communication slot of wording of a telegram, 4 bits R which compensates the build up time of each slot (transient response random time bit), 2-bit SS which shows the start of a signal (start symbol bit), 6 bits Pre (bit for bit synchronization establishment), 16-bit UW (pattern bit for taking the synchronization of a frame), Comprise 196 bits I (information bit) and 16 bits G (bit for error absorption), and I, Comprising a DATA (live data) and CRC (error detection bit), the concrete contents of the DATA include CI (channel type), an entrepreneur identification signal, a base station identification code (base station ID), terminal-called numerals (PS-ID: terminal ID), and an abnormal value detecting content

[0051]The position information displayed on the display 71 already reads and maps map information from the map information database 74 using common art with a car-navigation system, and displays the position and area of the target base station (ready-for-receiving ability range).

[0052]When a notifier is moving, transition of movement can be displayed as shown in drawing 6. Drawing 6 is an explanatory view showing the outline and display example of the display 71 of the emergency call center 70 concerning an embodiment of the invention. As shown in drawing 6, it departs from the ready-for-receiving ability range of the base station of A first, it turns out that B, C, D, and a base station change with movement after that, and the move direction can be made intelligible by the base station which changes by an arrow etc. being shown. Moving speed is calculated from the time which changed the distance and the base station between base stations, and you may make it display the speed concerned on the display 71.

[0053]Next, the clinical recording information database 73 has memorized a patient's clinical recording information, and, specifically, a patient's name, age, sex, the family that connects, the family hospital, the sick kind, etc. are memorized. And if PS-ID is detected from the wording of a telegram which received via the exchange station 41, the emergency

call center 70 will retrieve the clinical recording information of the patient concerned from the clinical recording information database 73, and will display it on the display 71.

Thereby, suitable treatment judgment is attained to the abnormal patient

[0054] The communication information of every month or a daily ambulance or the information on an emergency care organization is memorized, and the emergency system information database 72 can acquire promptly the information immediately related by operation in the emergency call center 70, and by this, A prompt action is attained to the abnormal patient

[0055] The emergency system information database 72, the clinical recording information database 73, and the map information database 74 are put in a database, The line connection is carried out to a medical institution, a fire department, a police station, etc. by LAN and WAN, and positive judgment and correspondence are possible by cooperating with these each specialized agency. And the medical institution of charge updates the information in the clinical recording information database 73, and the information in the emergency system information database 72 can build the optimal organization by the newest, if a fire department and a police station are made to update.

[0056] Thus, if PS-ID and base station ID are received by wording of a telegram from the cell phone unit 10, the emergency call center 70, Search the map information database 74 from base station ID, and position information is displayed on the display 71, The clinical recording information database 73 is searched from PS-ID, a patient's clinical recording information is displayed on the display 71, and it will also be displayed if the body data at the time of abnormalities (abnormal value detecting content) is contained in wording of a telegram. By operation, the emergency system information database 72 is searched and the medical institution of an emergency contact, etc. are displayed on the display 71.

[0057] Next, another utilizing method of the emergency call center 70 is explained. A patient's doctor in attendance or medical institution putting on the body data sensing device 20, If a patient's cell phone unit 10 is telephoned via the emergency call center 70 and transmission of body data is required of the body data control section 29 of the body data sensing device 20, The body data obtained from each sensor of the body data sensing device 20 can be monitored in real time in the emergency call center 70, and diagnosis can be made easy.

[0058] If the emergency call center 70 telephones the cell phone unit 10 automatically periodically and transmission of body data is required, The body data obtained with the body data sensing device 20 can be accumulated periodically, progress of a patient's condition of disease can be recognized easily, and the effect that proper diagnosis can be performed is done so.

[0059] Doctors in attendance telephone the cell phone unit 10 directly without going via the emergency call center 70, and they may enable it to obtain body data from the body data sensing device 20.

[0060] The utilizing method of another emergency dial center 70 is explained. When it not

only has the emergency dial from the cell phone unit 10, but a search request is received from the home in which a wandering old person is present in the emergency call center 70, the emergency call center 70, If transmission of the body data at the time of abnormalities is required telephoning the cell phone unit 10 and wording of a telegram is transmitted to the emergency call center 70 from the cell phone unit 10, the base station which serves as present room from base station ID contained in the wording of a telegram can be pinpointed.

[0061] In the position information database 61 of the PHS control center 60. Since the position information on a cell phone unit is managed per base station, if the retrieval required of the position information using PS-ID (terminal ID: ID of a cell phone unit) from the emergency call center 70 is outputted to the PHS control center 60, The PHS control center 60 outputs the position information which searches the position information database 61 and corresponds to the emergency call center 70, and can have a position of the cell phone unit 10 displayed with the display 71.

[0062] By what a personal computer (PC) is arranged at each home of a patient, it connects with a circuit from this PC, and the PHS control center 60 or the emergency call center 70 is accessed for. When a wandering old person can be easily searched from each home and retrieval requesting needs to contact a police station etc., it is also possible to connect via the emergency system information database 72 of the emergency call center 70.

[0063] The searching device 80 is what transmits the change-request signal made to change into a transceiver mode from PHS communication mode to the cell phone unit 10, The searching device 80 is equipped with the function which displays the field intensity of the reception radio wave from the cell phone unit 10 in a transceiver mode.

[0064] When it equips with the body data sensing device 20, and a search of the patient who possesses the connection **** cell phone unit 10 in it is needed, as it is shown in drawing 6 from base station ID of the wording of a telegram transmitted from the cell phone unit 10, Since position information (it is the ready-for-receiving ability range of the position of a receiving base station and the target base station in a map) will be displayed on the display 71 of the emergency call center 70, a search person in charge has the searching device 80, and moves to the ready-for-receiving ability range of the base station.

[0065] And if a search person in charge arrives at the reception range of a base station, the change-request signal changed into a transceiver mode from the usual PHS communication mode which goes via a base station in the cell phone unit 10 using the searching device 80 will be transmitted. It is transmitted to the cell phone unit 10 via the base station 30i for criminal investigation, analysis of the signal is conducted by PHS control part 17 of the cell phone unit 10, and the change-request signal to a transceiver mode is changed to a transceiver mode on the frequency of a transceiver.

[0066] If the cell phone unit 10 changes to a transceiver mode, based on the field intensity of the reception radio wave displayed on the searching device 80, field intensity will investigate toward a strong direction. A search object person is not usually required for the

search using the searching device 80 in order to talk directly using the cell phone unit 10, but even if it telephones the cell phone unit 10, when a search object person does not answer in the phone, it is worth using the searching device 80 concerning an embodiment of the invention.

[0067] Next, the searching device 80 concerning an embodiment of the invention is concretely explained using drawing 7 - drawing 10. Drawing 8 is an explanatory view showing outline operation of the searching device 80, drawing 7 is a configuration block figure of the searching device 80 concerning an embodiment of the invention, and drawing 10 is [drawing 9 is an explanatory view showing the frequency band for PHS, and] a flow chart figure showing the processing in the searching device 80.

[0068] As shown in drawing 7, the searching device 80 The antenna 100 and the common machine 101, The amplifier 102, the quadrature modulation machine 103, the modulator 104, and the TDMA control circuit 105, It comprises the voice coder 106, the microphone 107, the speaker 108, the receiver 109, the demodulator 110, the field intensity analysis circuit 111, the frequency synthesizer 112, the control circuit 113, the key operation section 114, and the indicator 115.

[0069] Each part of the searching device 80 is explained below briefly. As for the antenna 100a and b, two antennas are prepared for diversity reception. If the input signal where it is known [at] in the place which a received signal level decreases in a phasing channel that the quality of an input signal will deteriorate, and this transmits the same signal through two or more channels and which does not have almost correlation can be acquired, The probability which one signal component decreased greatly simultaneously with all the channels decreases. Therefore, a quality input signal is made by compounding two antenna reception signals two or more diversity branch (diversity branch) and here.

[0070] The common machine 101 is a receiving antenna apparatus for using in common as diversity, and the amplifier 102, It is apparatus which amplifies the modulated subcarrier, the quadrature modulation machine 103 is apparatus which modulates the subcarrier which the frequency synthesizer 112 generates, and the modulator 104 is apparatus which performs waveform shaping.

[0071] It is what the TDMA control circuit 105 corrects the error of an input signal, codes, and generates a transmission frame, The voice coder 106 is apparatus which changes the audio signal of an analog into a digital signal, it is a circuit which performs establishment and demultiplexing of the frame synchronization of an input signal, and an error correction, and the speaker 108 is [the microphone 107 is an input part of an audio signal, and] an outputting part of an audio signal.

[0072] The receiver 109 is a receiver from the two antennas 100a and 100b of diversity reception, and the demodulator 110, Are apparatus to perform the recovery of a modulated wave, and control of diversity reception, and the field intensity analysis circuit 111, Are the field intensity of the received electric wave a circuit to analyze, and the frequency synthesizer 112, It is apparatus which changes the frequency at the time of transmission

and reception, and the control circuit 113 is a circuit which performs control of the TDMA control circuit 105, the field intensity analysis circuit 111, the frequency synthesizer 112, the key operation section 114, and the indicator 115. The concrete processing in this control circuit 113 is mentioned later.

[0073]The key operation section 114 inputs the telephone number of the cell phone unit 10 for which it looks, and performs the change of the mode for the public (PHS communication mode), and a transceiver mode (private frequency area). The indicator 115 performs the display of object base station ID, and the display of field intensity.

[0074]The directions for the searching device 80 will transmit the change-request signal required as changing into a probe (cell phone unit) in PHS communication mode at a transceiver mode to the base station 30i, if the searching device 80 goes into the ready-for-receiving ability range of an object base station as shown in drawing 8 (1). The base station 30i transmits the signal to an exchange station and the carrier network 50, and (2) and also the carrier network 50 transmit the signal to the base station 30i which covers the cell phone unit 10, and carry out (3) of it

[0075]And the base station 30i will change the cell phone unit 10 into a transceiver mode from PHS communication mode, if a change-request signal is transmitted to the target cell phone unit 10, it is received by (4) and the cell phone unit 10 and the contents of the signal are analyzed. Then, the searching device 80 measures the field intensity of the electric wave from the cell phone unit 10, and can search now for the patient holding the cell phone unit 10 looking for the place where the field intensity serves as the maximum.

[0076]The frequency band for PHS is a transceiver mode for [to down /1895 MHz of] self-management in about 11 MHz bordering on 1906.1 MHz, as shown in drawing 9, It is the PHS communication mode for [to above /1918.1 MHz] the public in about 12 MHz, and a mode change (mode change) is performed in the frequency band of these upper and lower sides.

[0077]Next, processing of the control circuit 113 of the searching device 80 is explained using drawing 10. It judges whether the control circuit 113 is within the limits of the target base station, as shown in drawing 10 from base station ID (S40), and if it is within the limits of the target base station (in the case of Yes), mode change processing will be started and the telephone number of a probe (cell phone unit) will be read (S41). Those who operate it can also perform the processing S40 and S41 manually. In this case, the processing S40 is judged by base station ID displayed on the indicator 115 of the searching device 80, and the processing S41 inputs change directions in the mode, and the telephone number of a probe using the key operation section 114 of the searching device 80.

[0078]Next, the wording of a telegram for mode switchings is generated (S42), and directions of the wording-of-a-telegram dispatch concerned are outputted to the TDMA control circuit 105 (S43). A transmission frame is generated, it shapes in waveform with the modulator 104, the subcarrier which the frequency synthesizer 112 makes is modulated with the quadrature modulation machine 103, and it sends from the antenna 100a after

amplification with the amplifier 102 in the TDMA control circuit 105.

[0079] Then, it is judged whether there is any response by waiting (S 44) and a transceiver mode about the response by the transceiver mode from a probe (S 45). If it judges whether it will rerun if there is no response (in the case of No) (S 48) and reruns (in the case of Yes), it will return to the processing 40. Processing will be ended if it does not rerun (in the case of No). Although it is possible to set up also including the number of times beforehand, those who operate the processing S 48 may be made to judge manually whether it reruns or not here.

[0080] Processing which analyzes the field intensity of an electric wave is performed, transmitting and receiving by connecting with a probe by a transceiver mode by the processing S 45 in with (in the case of Yes) a response (S 46). And processing will be ended, if directions of the end of processing are received from the key operation section 114 when a search object person is discovered (S 46).

[0081] Attach the body data sensing device 20 a priori to a mountaineer with danger as another example using the searching device 80, the cell phone unit 10 is made to hold, and it acts as Iriyama in the state of a transceiver mode. When the mountaineer holding these devices suits an accident, it can use also for the searching device 80 performing a check and search of safety.

[0082] Next, the main operations of this system are explained. First, in the body data sensing device 20 of this system. If the body data control section 29 supervises the body data inputted from the various sensors 24-28 attached to the patient and it is judged to be unusual as compared with the abnormal value of the abnormal value storage parts store 21, PHS control part 17 of the cell phone unit 10 will be told about abnormalities as an abnormal signal via I/O.

[0083] In response to an abnormal signal, with the cell phone unit 10, the telephone number of the emergency call center 70 is telephoned, and base station ID and PS-ID are incorporated into wording of a telegram, and it transmits to the emergency call center 70 [the emergency number and here] where the emergency number storage parts store 16 memorized.

[0084] In the emergency call center 70, the wording of a telegram from the cell phone unit 10 is analyzed, The map information database 74 is searched from base station ID and PS-ID, the clinical recording information database 73 is searched for a position, and the information on an emergency system is displayed for clinical recording information on the display 71 with reference to the emergency system information database 72.

[0085] If the emergency call center 70 detects a patient's abnormalities, it is also possible to program to telephone an emergency care organization automatically and to notify a patient's abnormalities promptly, according to the information on the emergency system of the emergency system information database 72. Under the present circumstances, also notifying position information and clinical recording information is also considered. If the body data at the time of abnormalities is contained in wording of a telegram, the body data

will be displayed on the display 71, and transmitting also to an emergency care organization is also considered. If a patient's body data is accumulated periodically and the accumulated body data will also be transmitted to an emergency care organization, the correspondence to a patient will become more suitable.

[0086] If the emergency call center 70 can transmit a body data Request to Send to a patient's cell phone unit 10, a patient's body data replied from the cell phone unit 10 can also be monitored and this monitoring is performed periodically. A periodical patient's body data can be accumulated and it can use for subsequent medical practice.

[0087] If the emergency call center 70 outputs the retrieval required of a patient's position information to the PHS control center 60, the PHS control center 60 will search position information applicable from the position information database 61, and will return the position information to the emergency call center 70. When a patient's position information will be displayed on the display 71 of the emergency call center 70 and the patient is wandering by this, it can search for a patient easily.

[0088] When it is necessary to search for a patient, bring the searching device 80 to the ready-for-receiving ability range of the base station in which a patient does the whereabouts based on a patient's position information acquired in the emergency call center 70, and there, If the demand changed into a transceiver mode from PHS communication mode to a patient's cell phone unit 10 is advanced, the cell phone unit 10 changes to a transceiver mode, and can search for a patient easily from the field intensity of an electric wave after that

[0089] The voice mail database 62 of the PHS control center 60, Since it can transmit to the cell phone unit which generates voice mail with the directions from the emergency call center 70 to the specific area managed per base station, and is in the area of the base station in a specific area, For example, the cell phone unit in a specific area to be evacuated can be told about the situation of a disaster, an evacuation area, etc. by voice mail with a disaster etc.

[0090]

[Effect of the Invention] According to the invention according to claim 1, a body data sensing device detects body data, If an abnormal signal will be outputted to a cell phone unit if it judges that it is unusual, a cell phone unit transmits terminal ID and base station ID to an emergency call center by wording of a telegram and an emergency call center receives the wording of a telegram from a cell phone unit, Since it is considered as the emergency reporting system which displays the position of the base station concerned on map information from base station ID, and displays the clinical recording information of the body data to-be-examined appearance person corresponding to the cell phone unit concerned from terminal ID, and also displays emergency system information, It is effective in receiving unusually [a body data to-be-examined appearance person], and being able to realize quick and proper management

[0091] According to the invention according to claim 2, since it is considered as the

emergency reporting system according to claim 1 which unified the body data sensing device and the cell phone unit, in addition to the effect of claim 1, it is effective in being convenient for a body data to-be-examined appearance person to carry.

[0092] Since it is considered as the emergency reporting system according to claim 1 or 2 according to the invention according to claim 3, it is effective in the ability to properly judge a body data to-be-examined appearance person's situation.

[0093] According to the invention according to claim 4, if a body data sensing device is abnormal, the body data at the time of abnormalities will be outputted to a cell phone unit. A cell phone unit includes the body data at the time of abnormalities in wording of a telegram at wording of a telegram, and transmits to an emergency call center. Since the emergency call center is considering it as the emergency reporting system according to claim 1 which transmits the body data at the time of a body data to-be-examined appearance person's position, clinical recording information, and abnormalities to the contact which emergency system information shows, Various information which included the body data at the time of abnormalities in the emergency contact about the body data to-be-examined appearance person's abnormalities can be connected, and it is effective in receiving unusually [a body data to-be-examined appearance person], and being able to realize quick and proper management

[0094] According to the invention according to claim 5, an emergency call center transmits the Request to Send of body data to a specific cell phone unit. If the body data obtained from the cell phone unit is monitored and a cell phone unit receives the Request to Send of body data, Outputs the input request of body data to a body data sensing device, and the body data inputted from the body data sensing device is transmitted to an emergency call center. Since it is considered as the emergency reporting system according to claim 1, 3, or 4 which a body data sensing device detects body data to the input request of the body data from a cell phone unit, and outputs to the cell phone unit, A body data to-be-examined appearance person's situation can be monitored from an emergency call center, and it is effective in the quick and proper management to a body data to-be-examined appearance person being realizable.

[0095] According to the invention according to claim 6, a body data sensing device detects body data periodically, and outputs to a cell phone unit. Since a cell phone unit transmits the inputted body data to an emergency call center and the emergency call center is considering it as the emergency reporting system according to claim 1 or 4 which receives and accumulates body data periodically from a cell phone unit, A body data to-be-examined appearance person's situation can be grasped periodically, and it is effective in the quick and proper management to a body data to-be-examined appearance person being realizable.

[0096] According to the invention according to claim 7, an emergency call center outputs the retrieval required of the position about specific terminal ID to a PHS control center. If the base station of base station ID notified from a PHS control center is displayed on map

information and a PHS control center is examined for the position about specific terminal ID from an emergency call center, Since it is considered as the emergency reporting system according to claim 1 or 4 which notifies base station ID of the base station where the cell phone unit of terminal ID exists to an emergency call center, Even if an emergency call center does not telephone a cell phone unit, it can obtain the base station which carries out the whereabouts from a PHS control center, and it is effective in the ability to grasp easily a body data to-be-examined appearance person's place.

[0097]According to the invention according to claim 8, a PHS control center by the input of the base station of the object which transmits voice mail from an emergency call center, and the contents of the voice mail to transmit. Create the voice mail according to the contents concerned, match with the base station of a transmission object, and it registers with a voice mail database, Since it is considered as the emergency reporting system according to claim 1, 4, or 7 which transmits voice mail to the cell phone unit in the area of the base station concerned via the base station of a transmission object, It is effective in the ability to transmit the voice mail of specified substance to the cell phone unit of a specific area, for example, transmit the information on an evacuation area etc. to a stricken area region efficiently.

[0098]Since the searching device is considering it as the emergency reporting system according to claim 1 or 4 which makes the PHS communication mode of the cell phone unit of a search object change into a transceiver mode, and displays the field intensity of an electric wave according to the invention according to claim 9, It is effective in the ability of the field intensity of the electric wave in a transceiver mode to search for the cell phone unit of a search object easily.

[T ranslation done.]

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CLAIMS

[C laim(s)]

[C laim 1]An emergency call center which receives an emergency dial.

Two or more base stations connected to said emergency call center via a carrier network, said base station and a cell phone unit which performs radio, and a body data sensing device which detects body data.

Are the above the emergency reporting system which it had, and said body data sensing device, It is a body data sensing device which will output an abnormal signal if it judges whether detected body data has abnormalities and is abnormal, It is a cell phone unit which transmits base station ID of a base station which it will have connected to said emergency call center with terminal ID of the cell phone unit concerned if said cell phone unit receives an input of said abnormal signal by wording of a telegram, Said emergency call center holds area which said two or more base stations cover as map information, Information about illness of a body data to-be-examined appearance person corresponding to terminal ID of a cell phone unit is held as clinical recording information, If a contact of an emergency care organization, the police, and fire-fighting relation is held as emergency system information and said wording of a telegram from said cell phone unit is received, It is characterized by being an emergency call center which displays a position of the base station concerned on said map information from base station ID, displays clinical recording information of a body data to-be-examined appearance person corresponding to the cell phone unit concerned from terminal ID, and displays emergency system information.

[C laim 2]The emergency reporting system according to claim 1 unifying a body data sensing device and a cell phone unit

[C laim 3]The emergency reporting system according to claim 1 or 2 characterized by detecting either or such combination of a pulse, a pulse wave, electrocardio, body temperature, and arterial blood oxygenation concentration as body data.

[C laim 4]It is judged whether body data which a body data sensing device detected has abnormalities, It is a body data sensing device which an abnormal signal will be outputted if

abnormal, and outputs body data at the time of the abnormalities concerned, A cell phone unit is a cell phone unit which transmits to wording of a telegram in an emergency call center including body data at the time of said abnormalities, The emergency reporting system according to claim 1 being an emergency call center which transmits a body data to-be-examined appearance person's position, clinical recording information, and body data at the time of the abnormalities concerned to a contact which said emergency call center acquires body data at the time of abnormalities from said wording of a telegram, and emergency system information shows.

[Claim 5] An emergency call center transmits a Request to Send of body data to a specific cell phone unit, A re is an emergency call center which monitors body data obtained from said cell phone unit, and if said cell phone unit receives a Request to Send of said body data, It is a cell phone unit which transmits body data which outputted an input request of body data to a body data sensing device, and was inputted from said body data sensing device to said emergency call center, The emergency reporting system according to claim 1, 3, or 4 being a body data sensing device which said body data sensing device detects body data to an input request of body data from said cell phone unit, and outputs to said cell phone unit

[Claim 6] It is a body data sensing device which a body data sensing device detects body data periodically, and outputs to a cell phone unit, The emergency reporting system according to claim 1 or 4, wherein said cell phone unit is a cell phone unit which transmits inputted body data to an emergency call center and an emergency call center is an emergency call center which receives and accumulates body data periodically from said cell phone unit

[Claim 7] A PHS control center provided with a position information database which matches and memorizes terminal ID of a cell phone unit and base station ID of a base station from a communication connecting state of a cell phone unit and a base station is provided, An emergency call center outputs retrieval required of a position about specific terminal ID to said PHS control center, It is an emergency call center which displays a base station of base station ID notified from said PHS control center on map information, If said PHS control center is examined for a position about specific terminal ID from said emergency call center, The emergency reporting system according to claim 1 or 4 being a PHS control center which notifies base station ID of a base station where a cell phone unit of said terminal ID exists to said emergency call center.

[Claim 8] A base station of an object which is provided with a voice mail database which registers voice mail of specific contents to a specific base station, and transmits voice mail from an emergency call center, If the contents of voice mail to transmit are inputted, voice mail according to the contents concerned will be created, Match with a base station of a transmission object and it registers with said voice mail database, The emergency reporting system according to claim 1, 4, or 7 having a PHS control center which transmits said voice mail to a cell phone unit in area of the base station concerned via a base station

of said transmission object.

[Claim 9] If a change-request signal made to change into a transceiver mode from PHS communication mode to said cell phone unit is transmitted and said cell phone unit changes into a transceiver mode in area of a base station in which a cell phone unit which searches is present, The emergency reporting system according to claim 1 or 4 being a cell phone unit changed into a transceiver mode if a searching device which displays field intensity of an electric wave is formed, said cell phone unit is provided with a transceiver mode and said change-request signal from said searching device is received.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is a configuration block figure of the emergency reporting system concerning an embodiment of the invention.

[Drawing 2] It is a flow chart figure showing processing of PHS control part 17 of the cell phone unit 10 concerning an embodiment of the invention.

[Drawing 3] It is a flow chart figure showing the abnormality detection processing of the body data control section 29 of the body data sensing device 20 concerning an embodiment of the invention.

[Drawing 4] It is a flow chart figure showing body data transmitting processing of the body data control section 29 of the body data sensing device 20 concerning an embodiment of the invention.

[Drawing 5] It is an explanatory view showing the example of the wording of a telegram concerning an embodiment of the invention.

[Drawing 6] It is an explanatory view showing the outline and display example of the display 71 of the emergency call center 70 concerning an embodiment of the invention.

[Drawing 7] It is a configuration block figure of the searching device 80 concerning an embodiment of the invention.

[Drawing 8] It is an explanatory view showing outline operation of the searching device 80.

[Drawing 9] It is an explanatory view showing the frequency band for PHS.

[Drawing 10] It is a flow chart figure showing the processing in the searching device 80.

[Description of Notations]

10 [-- Emergency button,] -- A cell phone unit and 11 -- A microphone and 12 -- A speaker and 13 14 -- A final controlling element and 15 -- A PHS indicator and 16 -- Emergency number storage parts store, 17 [-- Body data sensing device,] -- A PHS control part and 18 -- A transmission and reception circuit and 19 -- An antenna and 20 21 -- An abnormal value storage parts store, 22 -- A body data indicator and 23 -- Unusual markup power part, 24 -- An arterial blood oxygenation concentration sensor, 25 -- A body temperature sensor, 26 -- Electrocardio sensor, 27 -- A pulse wave sensor and 28 -- A pulse sensor, 29

-- Body data control section, 30 [-- Carrier network,] -- The whole base station and 40 --
An exchange station and 41 -- An exchange station, 50 60 -- A position information
database and 62 -- Voice mail database, 70 -- An emergency call center and 71 -- A
display and 72 -- Emergency system information database, 73 -- A clinical recording
information database and 74 -- A map information database and 80 -- Searching device,
100 [-- A quadrature modulation machine and 104 /-- A modulator and 105 /-- A TDMA
control circuit and 106 /-- A voice coder and 107 /-- A microphone and 108 /-- A speaker,
109 /-- A receiver and 110 /-- A demodulator and 111 /-- Field intensity analysis circuit,] -
- An antenna, 101 -- A common machine and 102 -- An amplifier and 103 112 [--
Indicator] -- A frequency synthesizer and 113 -- A control circuit and 114 -- A key operation
section and 115

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CORRECTION OR AMENDMENT

[Kind of official gazette]Printing of amendment by regulation of 2 of Article 17 of Patent Law

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[Filing date]August 17 (2004.8.17), Heisei 16

[Amendment 1]

[Document to be Amended]Specification

[Item(s) to be Amended]Claim 1

[Method of Amendment]Change

[The contents of amendment]

[Claim 1]

It is an emergency reporting system provided with an emergency call center which receives an emergency dial via two or more base stations, said base station and a cell phone unit which performs radio, and a body data sensing device which detects body data, Said body data sensing device is a body data sensing device which outputs an abnormal

signal, when it judges whether detected body data has abnormalities and is abnormal, When said cell phone unit receives an input of said abnormal signal, it is a cell phone unit which transmits base station ID of a base station linked to terminal ID of the cell phone unit concerned to said emergency call center by wording of a telegram, Said emergency call center holds area which said two or more base stations cover as map information, Information about illness of a body data to-be-examined appearance person corresponding to terminal ID of a cell phone unit is held as clinical recording information, If a contact of an emergency care organization, the police, and fire-fighting relation is held as emergency system information and said wording of a telegram from said cell phone unit is received, An emergency reporting system being an emergency call center which displays a position of the base station concerned on said map information from base station ID, displays clinical recording information of a body data to-be-examined appearance person corresponding to the cell phone unit concerned from terminal ID, and displays emergency system information.

[The amendment 2]

[Document to be Amended] Specification

[Item(s) to be Amended] 0013

[Method of Amendment] Change

[The contents of amendment]

[0013]

[Means for Solving the Problem]

The invention according to claim 1 for solving a problem of the above-mentioned conventional example, An emergency call center which receives an emergency dial via two or more base stations, and said base station and a cell phone unit which performs radio, It is an emergency reporting system provided with a body data sensing device which detects body data, It is judged whether body data which said body data sensing device detected has abnormalities, When abnormal, are an abnormal signal a body data sensing device to output, and said cell phone unit, It is a cell phone unit which will transmit base station ID of a base station linked to terminal ID of the cell phone unit concerned to said emergency call center by wording of a telegram if an input of said abnormal signal is received, Said emergency call center holds area which said two or more base stations cover as map information, Information about illness of a body data to-be-examined appearance person corresponding to terminal ID of a cell phone unit is held as clinical recording information, If a contact of an emergency care organization, the police, and fire-fighting relation is held as emergency system information and said wording of a telegram from said cell phone unit is received, Display a position of the base station concerned on said map information from base station ID, and clinical recording information of a body data to-be-examined appearance person corresponding to the cell phone unit concerned is displayed from terminal ID, It is characterized by being an emergency call center which displays emergency system information, and it receives unusually [a body data to-be-examined

appearance person], and quick and proper management can be realized.

[T ranslation done.]